

PCT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PD990028	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 00/ 03680	International filing date (day/month/year) 25/04/2000	(Earliest) Priority Date (day/month/year) 07/05/1999
Applicant DEUTSCHE THOMSON-BRANDT GMBH		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

- the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of Invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

5

- None of the figures.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD990028	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP00/03680	International filing date (day/month/year) 25/04/2000 20/04/2000	Priority date (day/month/year) 07/05/1999	
International Patent Classification (IPC) or national classification and IPC G11B27/034			
Applicant DEUTSCHE THOMSON-BRANDT GMBH et al.			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 7 sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 06/12/2000	Date of completion of this report 17.07.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Sucher, R Telephone No. +49 89 2399 2148



**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP00/03680

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):
Description, pages:

2-18 as originally filed

1 as received on 29/06/2001 with letter of 27/06/2001

Claims, No.:

1-8 as received on 29/06/2001 with letter of 27/06/2001

Drawings, sheets:

1/5-5/5 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP00/03680

- the description, pages:
 the claims, Nos.:
 the drawings, sheets:
5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):
(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)
6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims 1-8
	No: Claims
Inventive step (IS)	Yes: Claims 1-8
	No: Claims
Industrial applicability (IA)	Yes: Claims 1-8
	No: Claims

2. Citations and explanations
see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/03680

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D3: EP-A-0 903 744 (MATSUSHITA ELECTRIC IND CO LTD) 24 March 1999.

2. Claim 1 defines a method for temporarily erasing a part of a program consisting of a digital data stream organized into one or more stream objects and navigation data for managing the digital data stream recorded on a recording medium. The navigation data of the program contains one or more cells which are logically linked with the stream objects by stream cell information. Such a data structure is well known from a standard DVD, see e.g. document D3.

The method is characterized in that new navigation data of a stream object is generated in such a way that the corresponding stream cell information is split depending on the coverage of the part of the stream object which is intended to be temporarily erased (four cases a1-a4). The generated new navigation data is linked with the stream object, and the original navigation data is replaced by the generated new navigation data.

Such a solution is only suggested by document D1 (see p. 6, l. 54 - p. 7, l. 17 in conjunction with fig. 7) or document D2 which have an earlier priority date than the present application but were published after the priority date of the present application.

3. Claims 2-8 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Re Item VI

Certain documents cited

Certain published documents (Rule 70.10)

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/03680

Application No Patent No	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (<i>valid claim</i>) (day/month/year)
D1: EP-A-1 021 048	19 July 2000	12 January 2000	14 January 1999
D2: EP-A-1 049 097	2 November 2000	26 April 2000	27 April 1999

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

WORDEMANN, Hermes
DEUTSCHE THOMSON-BRANDT GMBH
Patent- und Lizenzabteilung *AK*
Karl-Wiechers-Allee 74
D-30625 Hannover
ALLEMAGNE

18. Juli 2001 *AS*

Patent Department
Administration-Hannover

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)	17.07.2001
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Applicant's or agent's file reference

PD990028

IMPORTANT NOTIFICATION

International application No. PCT/EP00/03680	International filing date (day/month/year) 25/04/2000	Priority date (day/month/year) 07/05/1999
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Applicant
DEUTSCHE THOMSON-BRANDT GMBH et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/ European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Slater, S Tel. +49 89 2399-2565
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD990028	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41E)
International application No. PCT/EP00/03680	International filing date (day/month/year) 25/04/2000	Priority date (day/month/year) 07/05/1999

International Patent Classification (IPC) or national classification and IPC
G11B27/034

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Date of submission of the demand 06/12/2000	Date of completion of this report 17.07.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Sucher, R Telephone No. +49 89 2399 2148



**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP00/03680

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**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP00/03680

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 the claims, Nos.:
 the drawings, sheets:
5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c));
(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)
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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

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Novelty (N)	Yes: Claims 1-8
	No: Claims
Inventive step (IS)	Yes: Claims 1-8
	No: Claims
Industrial applicability (IA)	Yes: Claims 1-8
	No: Claims

2. Citations and explanations
see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/03680

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D3: EP-A-0 903 744 (MATSUSHITA ELECTRIC IND CO LTD) 24 March 1999.

2. Claim 1 defines a method for temporarily erasing a part of a program consisting of a digital data stream organized into one or more stream objects and navigation data for managing the digital data stream recorded on a recording medium. The navigation data of the program contains one or more cells which are logically linked with the stream objects by stream cell information. Such a data structure is well known from a standard DVD, see e.g. document D3.

The method is characterized in that new navigation data of a stream object is generated in such a way that the corresponding stream cell information is split depending on the coverage of the part of the stream object which is intended to be temporarily erased (four cases a1-a4). The generated new navigation data is linked with the stream object, and the original navigation data is replaced by the generated new navigation data.

Such a solution is only suggested by document D1 (see p. 6, l. 54 - p. 7, l. 17 in conjunction with fig. 7) or document D2 which have an earlier priority date than the present application but were published after the priority date of the present application.

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Re Item VI

Certain documents cited

Certain published documents (Rule 70.10)

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/03680

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
D1: EP-A-1 021 048	19 July 2000	12 January 2000	14 January 1999
D2: EP-A-1 049 097	2 November 2000	26 April 2000	27 April 1999

Method for temporarily erasing a part of a program.

The invention relates to a method for temporarily erasing a part of a program of a digital data stream representing video or audio information.

Background

In bitstream recording one is free to subdivide the bitstream into sub-units of more regular structure. Presentation data in DVDs (digital video or versatile disc) is organised into units called Video Object Unit, denoted VOBU, e.g. in the DVD Specifications for Video Recording. VOBUs have a variable size (data amount measured in number of sectors), but have also a variable duration (measured in number of video fields).

For data retrieval from the disc the DVD Specifications for Video Recording foresees a 'VOBU map' which is a table where for every VOBU in a recording the length in sectors and the duration in fields is entered.

Invention

It is one object of the invention to disclose a method for temporarily erasing a part of a program to enable on the fly permanent erasure without any additional view into the streams or complete withdrawal of the temporarily erasure.

According to the invention, this object is achieved by means of the features specified in main claims. Advantageous designs and developments are specified in subclaims.

The directory and file structure of DVD Stream Recording is organized in Stream Data and Navigation Data of the DVD Stream Recording as follows:

Amended claims

1. Method for temporarily erasing a part of a program
5 consisting of a digital data stream organized into one or more Stream Objects (SOB) representing video or audio or other digital data information and original navigation data (cell #k) for facilitating management of the digital data stream recorded in a recording medium wherein the navigation data (cell #k) of
10 the program contains one or more cells and the cells are logically linked with said Stream Objects (SOB) by stream cell information (SCI), and said Stream Objects (SOB) comprise one or more stream object units (SOBU),
15 (A) generating new navigation data (cell #k, cell #k+1, cell #k+2) of a corresponding Stream Object (SOB) in case part of said Stream Object (SOB) is intended to be temporarily erased, said navigation data (cell #k, cell #k+1, cell #k+2) are generated in such a way that the corresponding stream cell information (SCI) of said navigation data (cell #k, cell #k+1,
20 cell #k+2) is split depending on the coverage of said intended-to-be-deleted part of said Stream Object (SOB) by taking following steps,
25 (a1) If the part of the program to be temporarily erased covers neither the start of a current cell (cell #k) nor the end of said current cell (cell #k), then said current cell (cell #k) is split into three parts with a first part (cell #k) assigned to a first part of the Stream Object (SOB), which is displayable,
with a second part (cell #k+1) assigned to a second part of said Stream Object (SOB), which is temporarily erased and therefore
30 not displayable, and with a third part (cell #k+2) assigned to a third part of said Stream Object (SOB), which is displayable;
35 (a2) If the part of said program to be temporarily erased covers the start of said current cell (cell #k) but not the end of said

current cell (cell #k), then said current cell (cell #k) shall be split into two parts with a first part (cell #k) assigned to a first part of said Stream Object (SOB), which is temporarily erased and therefore not displayable, and with a second part (cell #k+1) assigned to a second part of said Stream Object (SOB), which is displayable;

(a3) If the part of said program to be temporarily erased does not cover the start of said current cell (cell #k) but the end of said current cell (cell #k), then said current cell (cell #k) shall be split into two parts with a first part (cell #k) assigned to a first part of a Stream Object (SOB), which is displayable, and with a second part (cell #k+1) assigned to a second part of a Stream Object (SOB), which is temporarily erased and therefore not displayable;

(a4) If the part of said program to be temporarily erased covers the start and the end of said current cell (cell #k), then said current cell (cell #k) representing said part of said Stream Object (SOB) shall be changed from displayable to temporarily erased and therefore not displayable,

(B) creating a link of the generated new navigation data (cell #k, cell #k+1, cell #k+2) with said Stream Object (SOB),

(C) replacing original navigation data (cell #k) with generated new navigation data (cell #k, cell #k+1, cell #k+2).

2. Method according to claim 1, including the following steps: setting within the generated navigation data (cell #k, cell #k+1, cell #k+2) for temporarily erased (TE) cells a Stream Cell Start Application Packet Arrival Time (SC_S_APAT) and a Stream Cell End Application Packet Arrival Time (SC_E_APAT), whereby said Stream Cell Start Application Packet Arrival Time (SC_S_APAT) is equal to an Application Packet Arrival Time (APAT) of the first application packet of a Stream Object Unit (SOBU).

3. Method according to claim 2, including the following steps:

setting said Stream Cell Start Application Packet Arrival Time (SC_S_APAT) by the following rules:

if the part of said Stream Object (SOB), which is temporarily erased, covers the start of the Stream Object (SOB),
5 then

said Stream Cell Start Application Packet Arrival Time (SC_S_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of the first Stream Object Unit (SOBU) of the Stream Object (SOB);

10 if the part of said Stream Object (SOB), which is temporarily erased, does not cover the start of the Stream Object (SOB), then said Stream Cell Start Application Packet Arrival Time (SC_S_APAT) is equal to or greater than the Application Packet Arrival Time (APAT) of first application
15 packet of the temporarily erased cell and

said Stream Cell Start Application Packet Arrival Time (SC_S_APAT) is as close as possible to the Application Packet Arrival Time (APAT) of the first application packet of the temporarily erased cell;

20 said Stream Cell End Application Packet Arrival Time (SC_E_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of a Stream Object Unit (SOBU);

25 if the part of said Stream Object (SOB), which is temporarily erased, covers the end of the Stream Object (SOB), then

30 said Stream Cell End Application Packet Arrival Time (SC_E_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of the Stream Object Unit (SOBU) following immediately the last Stream Object Unit (SOBU) of this Stream Object (SOB);

if the part of said Stream Object (SOB), which is temporarily erased, does not cover the end of the Stream Object (SOB), then

35 said Stream Cell End Application Packet Arrival Time (SC_E_APAT) is equal to or less than the Application Packet Arrival Time (APAT) of the application packet which follows

immediately the last application packet of the temporarily erased cell and

said Stream Cell End Application Packet Arrival Time (SC_E_APAT) is as close as possible to the Application Packet Arrival Time (APAT) of the last application packet of the temporarily erased cell.

4. Method according to claim 1, including the following steps: setting within the generated navigation data (cell #k, cell #k+1, cell #k+2) for a part of said Stream Object (SOB), which is temporarily erased, an Erase Start Application Packet Arrival Time (ERA_S_APAT)

whereby said Erase Start Application Packet Arrival Time (ERA_S_APAT) is equal to an Application Packet Arrival Time (APAT) of the first application packet of a Stream Object Unit (SOBU).

5. Method according to claim 4, including the following steps: setting said Erase Start Application Packet Arrival Time (ERA_S_APAT) by the following rules:

 said Erase Start Application Packet Arrival Time (ERA_S_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of a Stream Object Unit (SOBU);

25 if the part of said Stream Object (SOB), which is temporarily erased, covers the start of the Stream Object (SOB), then

 said Erase Start Application Packet Arrival Time (ERA_S_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of the first Stream Object Unit (SOBU) of the Stream Object (SOB);

35 if the part of said Stream Object (SOB), which is temporarily erased, does not cover the start of the Stream Object (SOB), then said Erase Start Application Packet Arrival Time (ERA_S_APAT) is equal to or greater than the Application Packet Arrival Time (APAT) of first application packet of the

part of said Stream Object (SOB), which is temporarily erased, and

 said Erase Start Application Packet Arrival Time (ERA_S_APAT) is as close as possible to the Application Packet Arrival Time (APAT) of the first application packet of the part of said Stream Object (SOB), which is temporarily erased;

 said Erase End Application Packet Arrival Time (ERA_E_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of a Stream Object Unit (SOBU);

10 if the part of said Stream Object (SOB), which is temporarily erased, covers the end of the Stream Object (SOB), then

15 said Erase End Application Packet Arrival Time (ERA_E_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of the Stream Object Unit (SOBU) following immediately the last Stream Object Unit (SOBU) of this Stream Object (SOB);

20 if the part of said Stream Object (SOB), which is temporarily erased, does not cover the end of the Stream Object (SOB), then

25 said Erase End Application Packet Arrival Time (ERA_E_APAT) is equal to or less than the Application Packet Arrival Time (APAT) of the application packet which follows immediately the last application packet of the part of said Stream Object (SOB), which is temporarily erased.

6. Method according to claim 4, including the following steps:
 setting within the generated navigation data (cell #k, cell #k+1, cell #k+2) for a part of said Stream Object (SOB), which is temporarily erased, an Erase End Application Packet Arrival Time (ERA_E_APAT)

30
35 whereby said Erase End Application Packet Arrival Time (ERA_E_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of a Stream Object Unit (SOBU).

7. Method according to claim 6, including the following steps:

setting said Erase End Application Packet Arrival Time (ERA_E_APAT) by the following rules:

5 said Erase End Application Packet Arrival Time (ERA_E_APAT) is as close as possible to the Application Packet Arrival Time (APAT) of the last application packet of the part of said Stream Object (SOB), which is temporarily erased.

8. Method according to claim 4, including the following steps:

10 setting within the generated navigation data (cell #k, cell #k+1, cell #k+2) for a part of said Stream Object (SOB), which is temporarily erased, a Stream Cell Start Application Packet Arrival Time (SC_S_APAT) and a Stream Cell End Application Packet Arrival Time (SC_E_APAT),

15 said Stream Cell Start Application Packet Arrival Time (SC_S_APAT) is equal to the Application Packet Arrival Time (APAT) of the first application packet of the part of said Stream Object (SOB), which is temporarily erased, and said Stream Cell End Application Packet Arrival Time (SC_E_APAT) is equal to the Application Packet Arrival Time (APAT) of the 20 last application packet of the part of said Stream Object (SOB), which is temporarily erased.